WheelieSafe™ Bin Handling System

Manual Models

(Essential, Multi & Dolly models)

Instructions for Use

Receipt of your WheelieSafe System

Upon receiving your Wheeliesafe System check that all the components of the system are present.

'Essential' Model: Basic trolley + one handling bracket.

'Multi' Model: Basic trolley + cargo bar + two handling brackets.

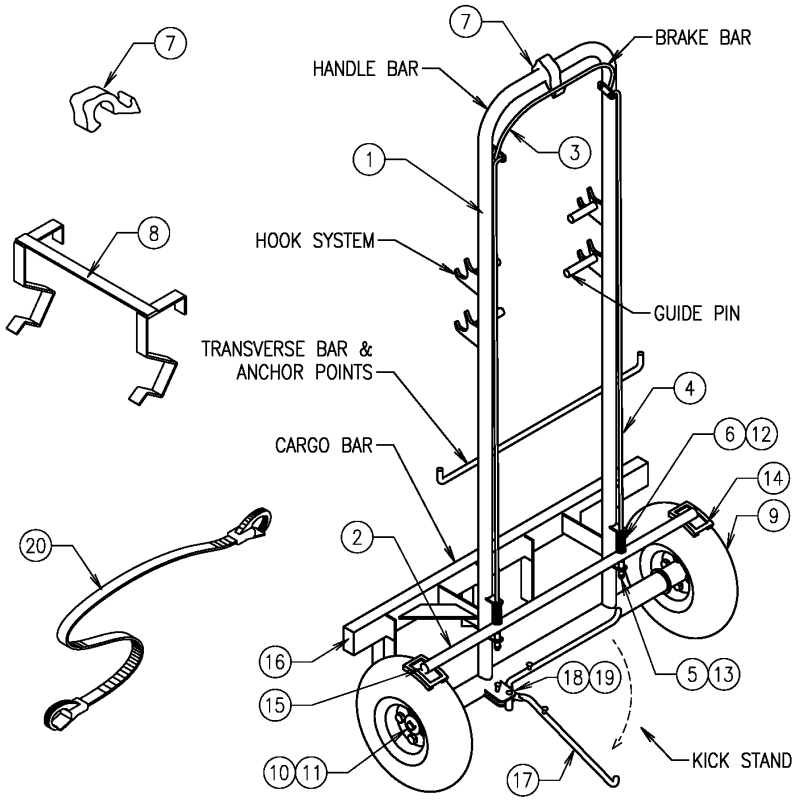
'Dolly Trolley: Basic trolley + swivel castor assembly

The Essential model is designed to handle up to two bins in a piggyback configuration. The Multi model can handle up to four empty or lightly laden bins in piggyback and abreast combinations. The Dolly Trolley has been developed to handle a single heavily laden bin.

In the case of the Multi and the Dolly Trolley minor assembly is required. In the case of the Multi, using the four nut/bolt/washers combinations to attach the cargo bar. For the Dolly Trolley the swivel castor assembly has to be rotated from the front to the back of the trolley and attached to the transverse bar (see sketch) using the two nut/bolt/washers combinations provided.

The WheelieSafe Bin Handling System

PARTS LIST:
1) FRAME (CHASSIS) - 1 OFF
2) BRAKE BAR - 1 OFF
3) HANDLE ASSEMBLY - 1 OFF
4) BRAKE CONTROL ROD - 2 OFF
5) ROD SLEEVE TUBE - 2 OFF
6) SPRING COLLARS - 4 OFF
7) BRAKE RETAINING CLIP - 1 OFF
8) HANDLING BRACKET
9) TROLLEY WHEELS - 2 OFF
10) COTTER PIN - 2 OFF
11) ROUND WASHER - 4 OFF
12) COIL SPRING - 2 OFF
13) M6 SS NYLOCK NUT -2 OFF
14) RUBBER BRAKE PAD - 2 OFF
15) Ø19 PLASTIC END CAP - 2 OFF
16) 50X25 PLASTIC END CAP - 2 OFF
17) KICK STAND LEG - 1 OFF
18) M6x20 DOME SOCKET BOLT &
M6 M6 NYLOCK NUT - 1 OFF EA.
19) KICK STAND SPRING - 1 OFF
20) BUNGEE STRAP



SAFETY NOTICE – Must be read prior to use

- **The WheelieSafe trolley must not be used to handle a single bin exceeding the total weight of 100kg.**
- When loading the trolley over 90kg the wheeled prop assembly must be fitted and used to reduce handing strain on the user.
- When handling heavy loads take care when lowering the load; keep legs apart. Uncontrolled disengagement of the trolley from the bin can cause the trolley to roll back suddenly and strike the user's legs.
- When handling multiple bins the bins must be lightly laden or empty (i.e. the total combined weight not exceeding 60kg)
- The trolley must not be used on inclines of greater than 25%.

NB: Neither Handling brackets nor Bungee Strap are included with the Dolly Trolley

The Hook System

Two sets of loading hooks are provided – an upper set and a lower set. The lower set is designed for loading small (eg: 120 litre, 140 litre) bins and the upper hooks for loading 240 litre and some 360 litre bins.

Each set of hooks is made up of a right and left hand combination hook, which has a forward hook and a hook located closer to the shafts of the trolley and above the forward hook. The two most forward hooks are used when picking up a bin from the side or the front of a bin and are designed to fit under the side or front lip of the bin to temporarily re-locate it if that is necessary. The inner hooks adjacent to the trolley shafts are employed to pick up the bin using the bin's handlebar and will be employed when the bin, or bins, are to be moved some distance.

The following instructions should be read in conjunction with viewing the demonstration video which is on the WheelieSafe website (http://wheeliesafe.com.au or the YouTube link http://www.youtube.com/watch?v=f_uqJpfW2E4

Essential & Multi Model Instructions

Loading a Single Bin

For regular use load the bin from the rear, using the bin's normal handlebar. A single bin can be loaded from either side edges, the front edge, or using the bin's handlebar. Generally, loading from either side or the front will only be employed to move the bin into a position where it can be loaded using the handlebar.

To Load a Bin

Incline the trolley forward at a sufficient angle to allow the inner hooks to locate under the bin's handlebar. Apply the brake by squeezing the brake bar to the point where it pushes the retaining clip away. Release the brake bar to apply the brake pads to the wheels. The trolley is now locked in a stationary position with the hooks under the bins handlebar. Pull back on the trolley handle bar and the bin will be raised and come to rest against the trolley axle with the Essential, or the Cargo Bar in the case of the Multi. The loaded trolley can now be moved by depressing the brake bar until the brake bar-retaining clip can retain it. The clip can be employed either by pushing it towards you with the forefinger or rotated with the thumb, using the indentations on the top or front surfaces of the clip. Normally, the brake bar would be clipped into the 'off' position if some distance is to be travelled over level ground. Keep the brake bar free for operation on sloping ground or proceeding down steps.

Applying the Brake

Should it be necessary to apply the brake again in an emergency, a quick squeeze of the brake bar towards the trolley handle will push the retaining clip clear of the

brake bar and allow it to be released quickly or gradually to apply the braking force required. Full sudden release will bring the trolley/bin combination to an abrupt halt.

To Unload a Single Bin

Bring the loaded trolley to a halt by fully applying the brake. Tilt the trolley forward until the leading edge of the bin touches the ground. Release the brake allowing the trolley to move backwards toward the operator and free from the bin handlebar.

Loading Two Bins Piggyback

Load the heaviest or largest bin as described above. Place the handling bracket across the front lip of the loaded bin and move the loaded bin so that the bracket is located under the handle bar of the second bin. Tilt the trolley backwards and the handling bracket will pick up the handle of the second bin, loading it.

Loading Two Bins Abreast (Multi only)

Place the two bins side by side and clip a handling bracket across their inside front corners. Apply the trolley as described above except that the trolley hooks should be located so that they pick up the inside end of each of the bins' handlebars. This should be done so that the horizontal guide pins on the inside face of the hook assembly locate adjacent to the inside face of the outer bin handle support bracket. This prevents unevenly loaded bins from sliding sideways during operation.

Loading Three Bins

With the handling bracket located as described above present the two loaded bins to a third bin until the bracket hook is located beneath the handlebar of the third bin. Apply the trolley brake and pull back on the trolley handlebar until the bracket locates under the handlebar of the third bin. Keep pulling the trolley handlebar back until the third bin lifts clear of the ground.

Loading Four Bins

Four lightly laden or empty bins may also be loaded by placing the first bracket across the inside corners of the first two bins and the second bracket in the same position on the second two bins to hold them together.

Load the first two bins as described above. Tip the two loaded bins forward and move forward in such a way that when the front two bins are raised by pulling back on the trolley handle, the handling bracket will pick up the inside ends of the handlebars of the second two bins and lift them off the ground.

Use of the braking system

One of the key advantages of the WheelieSafe trolley is the ability to brake the load when proceeding downhill or when a sudden stop is needed. The brake is a default

“on” brake. The user grips the brake handle to release the brakes. The braking system is remarkably effective for most loads and inclines. However it must be noted that the braking system requires careful control; the greater the load the less likely it is for the brake to fully stop the trolley. The trolley must not be used on inclines of greater than 25%. If the braking system allows the trolley to move faster than desired ease the trolley handle bar forward thus increasing the load transferred to the ground via the wheels and reducing the forward force.

Stowing the Handling Brackets

The handling brackets can be carried in a variety of ways using the chassis of the trolley and users will develop a system that most suits them. The single bracket supplied with the Essential model can be hung on the Transverse Bar (see sketch). The best way to stow the two brackets supplied with the Multi is to pack them into the base of the chassis. To do so, stand in front of the upright trolley and hang the edge of the bracket having the arms at an acute angle over the brake bar. The right-angled side of the bracket will come to rest against the trolley axle. Turn the second bracket upside down and place the acute angled side of the second bracket inside the right-angled part of the first bracket. The right-angled side will nestle in behind the cargo bar.

Stowing the Trolley

The trolley will free-stand using the kickstand provided. It can also be leaned against a wall with the brake on and it will remain in place.

Lubrication

The trolley bearings are sealed and do not require regular lubrication. A small quantity of dry (solid) lubricant should be applied regularly to the brake control rods, however, where they pass through the guides on the trolley chassis.

Appropriate Loading

The trolley should not be overloaded. The combined weight of the loaded trolley must not exceed 114 kgs.

Tyres

If pneumatic tyres are fitted ensure that they are maintained at the appropriate pressure (30 lbs/sq.in or 207 KPA). Puncture proof tyres are foam filled and do not require maintenance.

General Maintenance

The tyre treads should be kept free of detritus as far as possible. Clogged treads may affect braking effectiveness.

The trolley frame and the handling brackets are powder coated and should remain rust-free indefinitely. Nevertheless, it is advisable to keep them clean as dirt may contain corrosive elements that will attack the finish.

If you have ANY questions regarding the safe and efficient use of the WheelieSafe Trolley please email the manufacturer at: info@wheeliesafe.com.au

Dolly Trolley Instructions

The Dolly Trolley has been designed to reduce strain and improve handling safety of single heavily laden bins (i.e. over 60 kgs) in commercial/industrial/institutional applications.

Loading One Heavy Bin

When handling bins weighing over 60kg care must be taken to reduce the strain to the user's back, shoulders and neck. Loads over 60kg require the balance point of the trolley to be below 912mm (the average safe handling height for males and females*). The swivel castor assembly has been specifically designed to reduce strain when handling such heavy loads by limiting the handle height to 912mm.

To remove the bin, apply the brake and lower it until it touches the ground. Care should be taken when lowering the load; keep legs apart. Uncontrolled disengagement of the trolley from the bin can cause the trolley to roll back suddenly and strike the users legs. Hence as an added precaution the user should stand with legs apart during this operation.

Use of the braking system

One of the key advantages of the Wheelie Safe trolley is the ability to brake the load when transporting downhill or when a sudden stop is needed. The brake is a default "on" brake. The user grips the brake handle to release the brakes. The braking system is remarkably effective for most loads and inclines. However it must be noted that the braking system requires careful control; the greater the load the less likely it is for the brake to fully stop the trolley. If the braking system allows the trolley to move faster than desired ease the trolley handle bar forward thus increasing the load transferred to the ground via the wheels and reducing the forward force. The trolley must not be used on inclines of greater than 25%.

If you have ANY questions regarding the safe and efficient use of the WheelieSafe Trolley please email the manufacturer at: info@wheeliesafe.com.au

- 912mm is the mid point between the male and female 5th percentile of elbow height in standing – tables drawn from Stevenson MG, 2000, Notes on the Principles of Ergonomics.